



TM 2629

97084/00116

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of  
JOHN J. KEATING, III ET AL.

Serial No.: 10/585,157

Confirmation No.: 8332

Filed: June 29, 2006

For: THREE-DIMENSIONAL IMAGING  
SYSTEM USING OPTICAL PULSES,  
NON-LINEAR OPTICAL MIXERS AND  
HOLOGRAPHIC CALIBRATION

Examiner: To Be Assigned

Group Art Unit: 2629

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(Date of Deposit)

Deanne M. Bolzjoch 10/5/06

(Signature)

(Date)

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**Mail Stop Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants and their attorney respectfully request that the following United States patents and non-patent references be made of record in the official United States Patent and Trademark Office file relating to the above-identified application. The citation of these patents and non-patent references should not be construed as an admission that they constitute statutory prior art with respect to the present invention.

**U.S. Patent Nos.**

3,428,393	5,451,785	5,936,767	6,445,491
3,604,780	5,489,984	5,939,739	6,600,168
4,160,973	5,585,913	5,943,160	6,603,778
4,292,523	5,684,621	6,024,496	6,664,501
4,871,231	5,703,606	6,108,576	6,724,489
4,979,815	5,852,700	6,177,913	6,765,566
5,013,917	5,870,220	6,229,509	6,816,629
5,148,301	5,898,714	6,302,542	6,819,869
5,177,752	5,936,736	6,321,111	6,822,748

Non-Patent References

JOHN D. SIMON, "Ultrashort Light Pulses", *Reviews of Scientific Instruments* 60 (12), December 1989, pages 3597-3624

STEINMEYER, et al., "Frontiers in Ultrashort Generation: Pushing the Limits in Linear and Nonlinear Optics", *Science Magazine*, 19 November 1999, pages 1507-1512

PAIELLA, et al. , "Self-Mode-Locking of Quantum Cascade Lasers with Giant Ultrafast Optical Nonlinearities", *Science Magazine*, 1 December 2000, pages 1739-1742

"Putting Ultra-intense Femtosecond Pulses to Work Serving Mankind", one-page flyer distributed by Hamamatsu Photonics K.K., Japan (publication date presently unknown)

SCHÄFER, et al., "Propagation of Ultra-Short Optical Pulses in Nonlinear Media", 21 December 2002, pages 1-22

In compliance with 37 C.F.R. §1.98(a)(2), copies of the non-patent references are enclosed herewith. All of the above-referenced patents and non-patent references are in the English-language. Under such circumstances, comments concerning the relevance of same are considered unnecessary.

In order to facilitate the Examiner's citation of the patents and non-patent references listed above, applicants' attorney has completed United States Patent and Trademark Office Forms PTO/SB/08A and PTO/SB/08B. The completed forms are attached hereto for the Examiner's convenience.

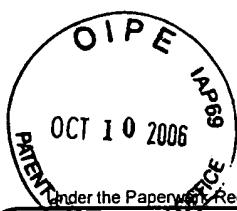
No fees are believed to be due as a result of the submittal of this Information Disclosure Statement. If any such fees are due, including, without limitation, extension or petition fees, the Examiner is hereby authorized to charge them to Deposit Account No. 503571.

Respectfully Submitted,

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 12

**Complete if Known**

Application Number	10/585,157
Filing Date	June 29, 2006
First Named Inventor	John J. Keating, III
Art Unit	2629
Examiner Name	To Be Assigned
Attorney Docket Number	97084/00116

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1	US-	3,428,393	02-18-1969	De Montebello	
2	US-	3,604,780	09-14-1971	Martin	
3	US-	4,160,973	07-10-1979	Berlin, Jr.	
4	US-	4,292,523	09-29-1981	Hoppe	
5	US-	4,871,231	10-03-1989	Garcia, Jr.	
6	US-	4,979,815	12-25-1990	Tsikos	
7	US-	5,013,917	05-07-1991	Ulich	
8	US-	5,148,301	09-15-1992	Sawatsubashi et al.	
9	US-	5,177,752	01-05-1993	Ohya et al.	
10	US-	5,451,785	09-19-1995	Faris	
11	US-	5,489,984	02-06-1996	Hariharan et al.	
12	US-	5,585,913	12-17-1996	Hariharan et al.	
13	US-	5,684,621	11-04-1997	Downing	
14	US-	5,703,606	12-30-1997	Blundell	
15	US-	5,852,700	12-22-1998	Caponi et al.	
16	US-	5,870,220	02-09-1999	Migdal et al.	
17	US-	5,898,714	04-27-1999	Morita et al.	
18	US-	5,936,736	08-10-1999	Suzuki et al.	
19	US-	5,936,767	08-10-1999	Favalora	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> ~Number <sup>4</sup> ~Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

Examiner Signature		Date Considered
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

2 of 2

### Complete if Known

Application Number	10/585,157
Filing Date	June 29, 2006
First Named Inventor	John J. Keating, III
Art Unit	2629
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Attorney Docket Number	97084/00116

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20	US-	5,939,739	08-17-1999	O'Keefe	
21	US-	5,943,160	08-24-1999	Downing	
22	US-	6,024,496	02-15-2000	Shy	
23	US-	6,108,576	08-22-2000	Alfano et al.	
24	US-	6,177,913	01-23-2001	Whitesell	
25	US-	6,229,509	05-08-2001	DeLuca et al.	
26	US-	6,302,542	10-16-2001	Tsao	
27	US-	6,321,111	11-20-2001	Perelman et al.	
28	US-	6,445,491	09-03-2002	Sucha et al.	
29	US-	6,600,168	07-29-2003	Geng	
30	US-	6,603,778	08-05-2003	Imasaka	
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32	US-	6,724,489	04-20-2004	Freifeld	
33	US-	6,765,566	07-20-2004	Tsao	
34	US-	6,816,629	11-09-2004	Redlich	
35	US-	6,819,869	11-16-2004	Seo	
36	US-	6,822,748	11-23-2004	Johnston et al.	
	US-				
	US-				

### FOREIGN PATENT DOCUMENTS

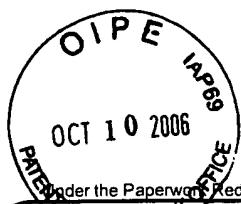
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>

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STATEMENT BY APPLICANT

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Sheet	1	of	1
		Attorney Docket Number	97084/00116

## NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		JOHN D. SIMON, "Ultrashort Light Pulses", Reviews of Scientific Instruments 60 (12), December 1989, pages 3597-3624	
		STEINMEYER, et al., "Frontiers in Ultrashort Generation: Pushing the Limits in Linear and Nonlinear Optics", Science Magazine, 19 November 1999, pages 1507-1512	
		PAIELLA, et al. , "Self-Mode-Locking of Quantum Cascade Lasers with Giant Ultrafast Optical Nonlinearities", Science Magazine, 1 December 2000, pages 1739-1742	
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		SCHÄFER, et al., "Propagation of Ultra-Short Optical Pulses in Nonlinear Media", pages 1-22, 21 December 2002	

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